

AQCSV and What It Means to You

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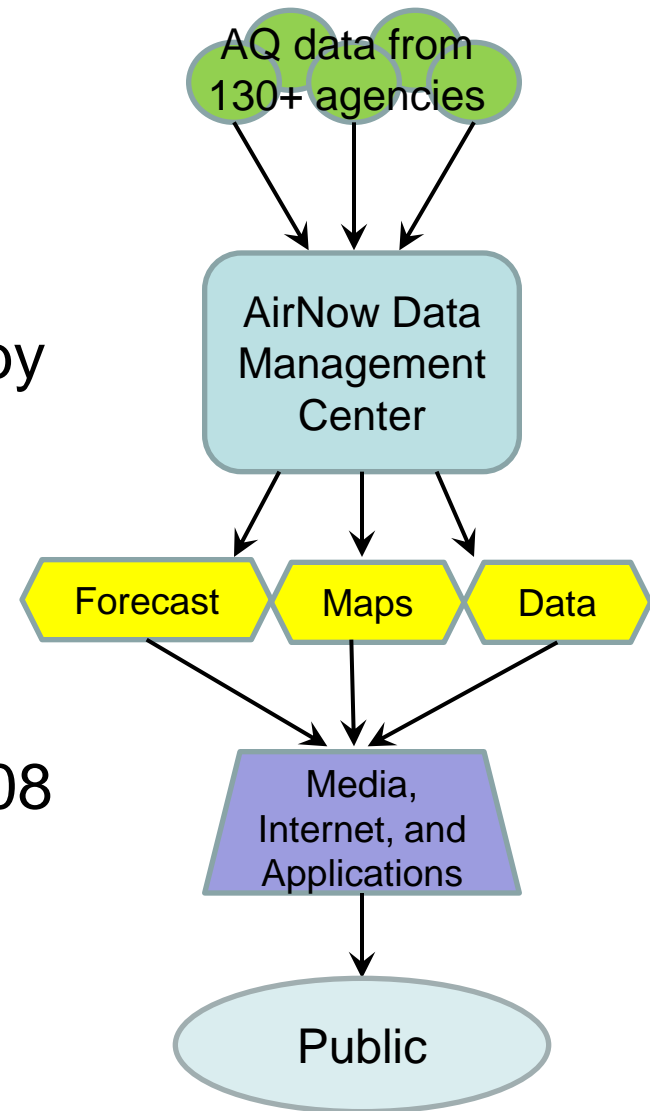


Outline

- AirNow Data Transfer
- Legacy OBS Format
- Data Delivery to EPA and AQCSV
- AQCSV
 - Motivation and Benefit
 - Example
 - New tool – AirNow-Tech 2.0
 - Current Status
 - Activities and Schedule
- Summary

AirNow Data Transfer

- AirNow program started in 1997
- Data transfer started with State Host Computers (SHC)
- Data transfer was (and still is) done by OBS files and contained ozone only
- PM_{2.5} data delivery began in 2003
- Additional parameters were added in 2004
- AQDE Node was implemented in 2008
- Data are now available through AirNow-Tech and AirNow Gateway



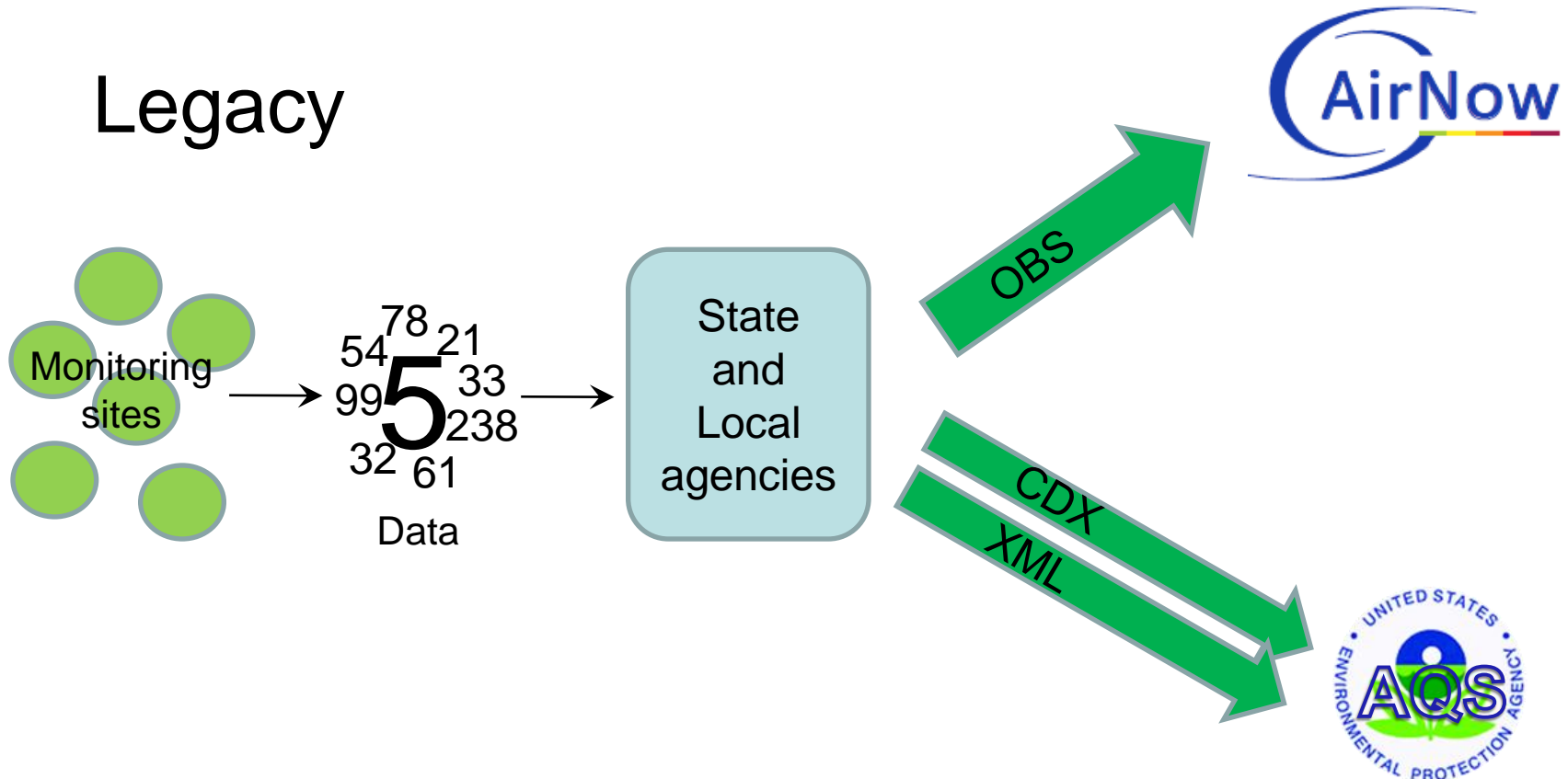
Legacy OBS Format

- Legacy format for data ingest into AirNow
- Why are we phasing it out?
 - No native support for
 - Multiple parameter of occurrence (POC)
 - Mobile monitors
 - Three-dimensional data
 - Limited list of parameters
 - No sub-hourly data
 - Applied only to North America
 - Difficult to use in mobile apps
 - Difficult to decode and program

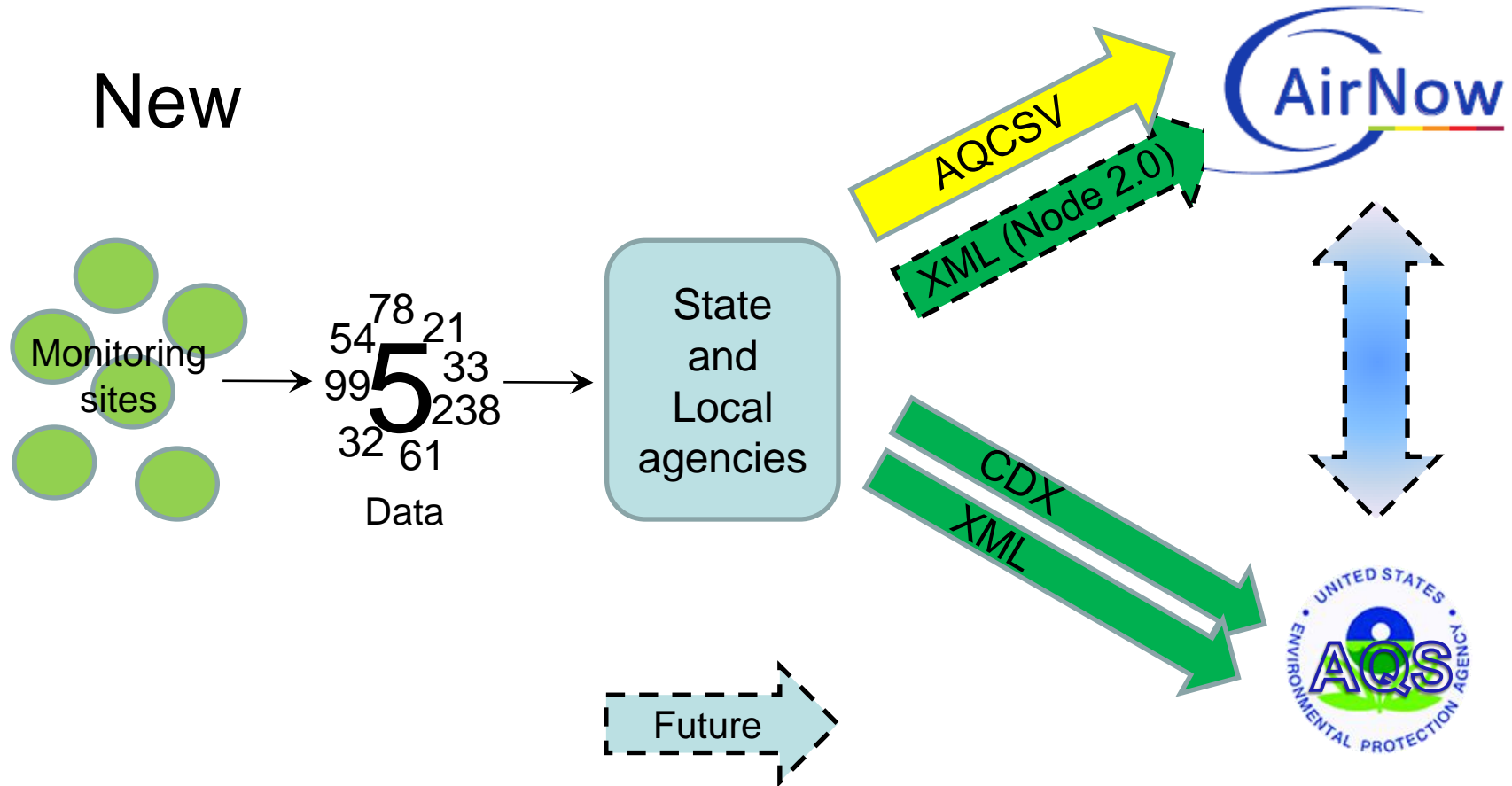
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Data Delivery to EPA and AQCSV

Legacy



Data Delivery to EPA and AQCSV



AQCSV – Motivation and Benefits

- Supports
 - AQS standards (parameter codes, POC)
 - Any AQS parameter
 - Speciated/lab data
 - Mobile monitor data
 - Sub-hourly data
- Allows for
 - Submitting more data into AirNow
 - Backfill of AQS data into AirNow when available
 - Editing in AirNow-Tech 2.0
 - Easy encoding and parsing of data
 - Support of international data exchange

AQCSV – Example

- ISO Standards
 - Country codes (840 = USA)
 - Date and time
- AQS-Based
 - Parameter codes
 - Unit codes
 - POC codes
- Support for
 - AQS qualifier codes
 - Location information
 - Latitude and longitude
 - Elevation and GIS data
 - Method codes
 - Measurement performance characteristics
 - Value and uncertainty

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AQCSV and AirNow-Tech 2.0

New AirNow-Tech takes advantage of expanded information available through AQCSV files

AirNow Tech alpha

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Agencies Sites Navigator **Data** Forecasts Polling Notifier EnviroFlash Resources

My Queries

Select:

Name:

Display Settings

Date Range: ☒ Last 2 Days ☐ 05/09/2012 to 05/09/2012

Display: ☒ Graph ☐ Line ☐ Table ☐ Unpivoted

Filter: ☐ By QC Code 0 - Valid ☐ By Source Preliminary

Query Settings

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Site(s): [Site Selector](#)

Filtered Data Set(s):

Selected Data Set(s):

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- Cool/O3 - 44201/1 Hr/1
- Auburn/O3 - 44201/1 Hr/1
- Colfax/O3 - 44201/1 Hr/1

QC Code:

☒ Apply Bias and Scaling where $y = Mx + B$

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Scale (M):	<input type="text"/>	<input type="text"/>

☐ Set Values: to:

☐ Set Values to:

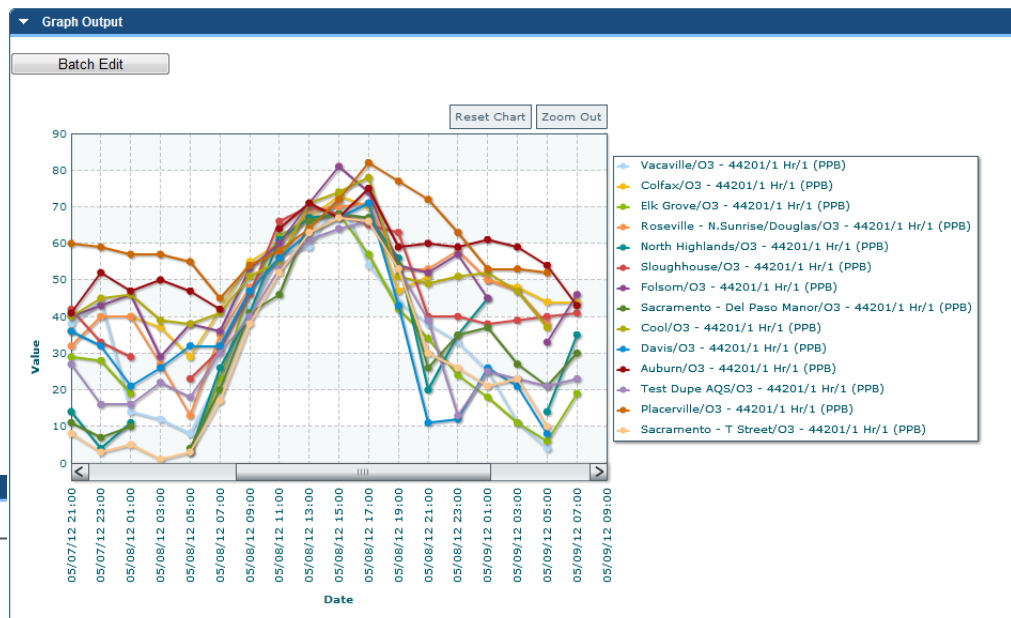
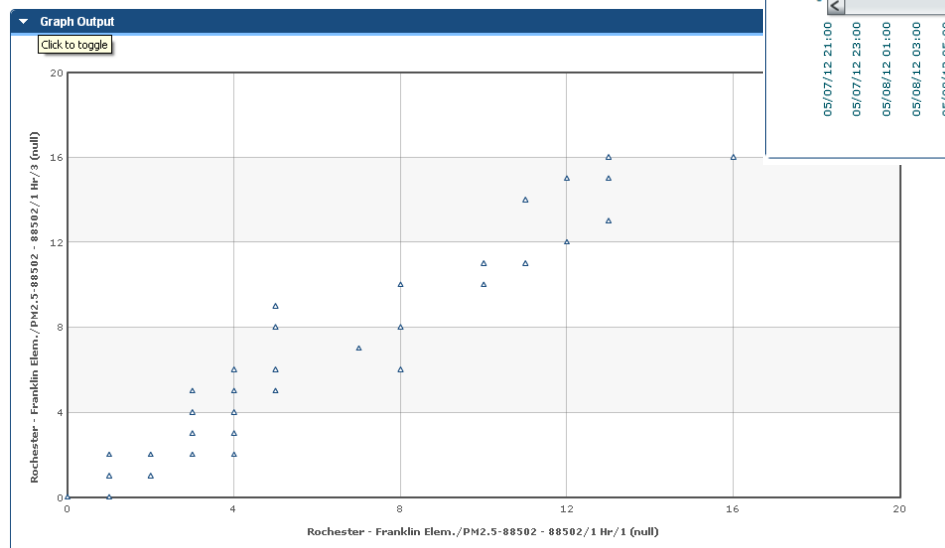
Table Output

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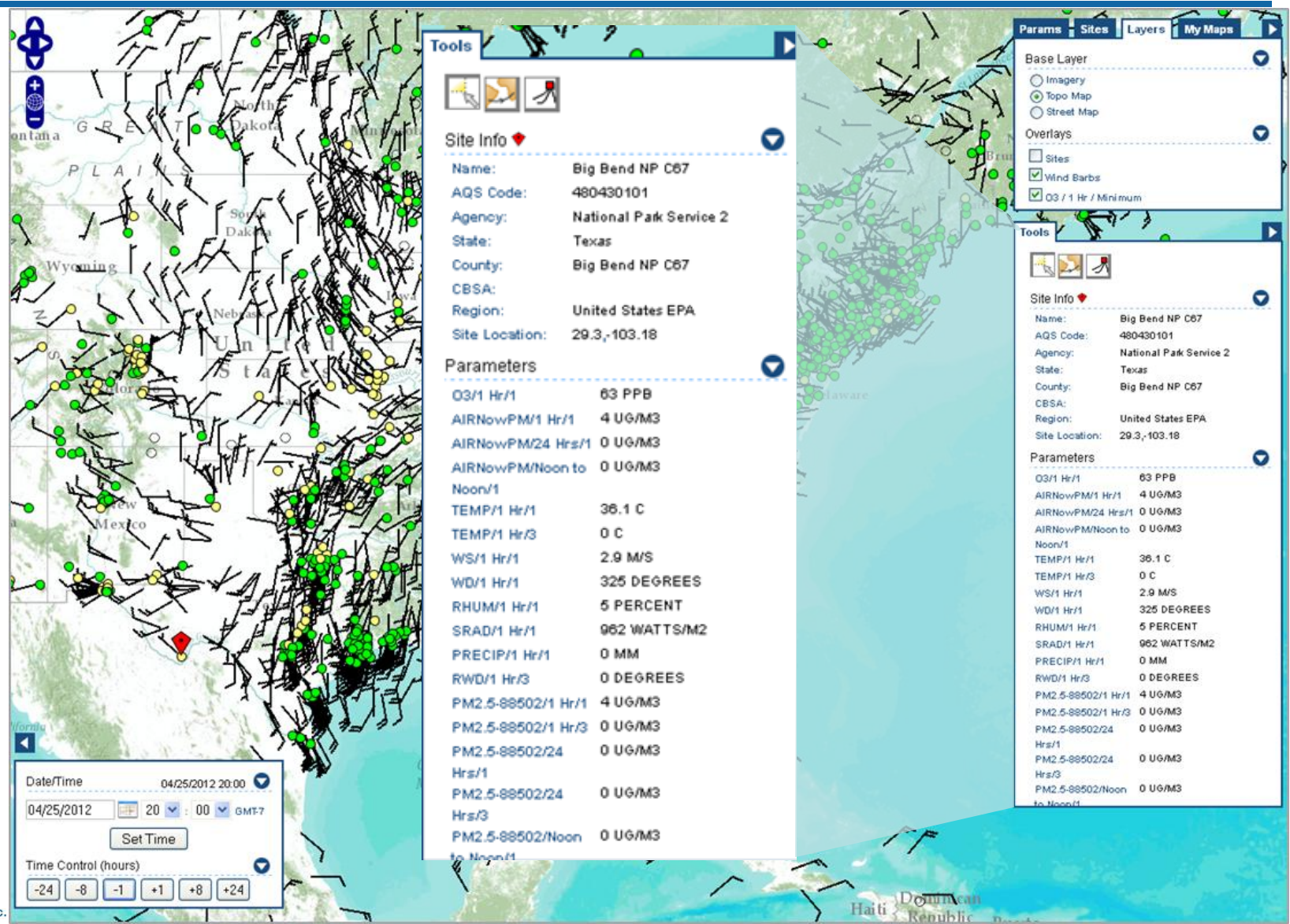
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AQCSV and AirNow-Tech 2.0

New AirNow-Tech takes advantage of expanded information available through AQCSV files



AQCSV and AirNow-Tech 2.0



AQCSV and AirNow-Tech 2.0



AQCSV – Current Status

- Agencies currently delivering data via AQCSV
 - Arizona Dept. of Environmental Quality (AZ1)
 - Connecticut Dept. of Energy and Environmental Protection (CT1)
 - Maine Dept. of Environmental Protection (ME1)
 - Mendocino County AQMD (MEN)
 - Minnesota Pollution Control Agency (MN1)
 - Northern Sierra AQMD (NOS)
 - Sacramento Metropolitan AQMD (CA1)
 - San Francisco Bay Area AQMD (CA2)
- Agencies currently testing AQCSV data files
 - California Air Resources Board (CA8)
 - New Hampshire Dept. of Environmental Services (NH1)
 - Oregon Dept. of Environmental Quality (OR1)
 - Texas Commission on Environmental Quality (TX1)

AQCSV – Activities and Schedule

- Continue to work with vendors on AQCSV outreach
- Provide technical support to agencies
- Set up testing module
- OBS format will be supported through December 2012
- Target is to phase out OBS format entirely by Q1 2013

Summary

- Legacy OBS format is obsolete
- More agencies are testing and switching to AQCSV
- We encourage agencies to convert by end of 2012
- Agencies with AQCSV submittal to AirNow can take full advantage of new visualization and data editing tools in AirNow-Tech 2.0